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MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA
Federal State Budgetary Educational Institution
of Higher Education
«I.N. Ulianov Chuvash State University»
(FSBEI of HE «I.N. Ulianov Chuvash State University»)

Medical Faculty
Department of Healthcare Management and Information Technologies in Medicine

«APPROVE»

Vice-rector for Academic Affairs


I. E. Poverinov

« 13 » 04 2022

WORKING PROGRAM OF PRACTICAL TRAINING
on-the-job training
(research work)

Speciality 31.05.03 Dentistry

Directivity (profile) – "Dentistry"

Qualification of a graduate: Dental practitioner

Aspect of practical training - on-the-job training

Type of practical training - research work

The year when training started - 2022

The working program of the practical training is based on the requirements of the federal state educational standard of higher education – specialist's degree program by specialty 31.05.03 Dentistry, approved by Order of the Ministry of Science and Higher Education of the Russian Federation № 984 dated August 12, 2020, Order of the Ministry of Health of the Russian Federation dated September 3, 2013 №620n "On Approving the Procedure for Organizing and Conducting Practical Training of Students Mastering Professional Educational Programs of Medical Education, Pharmaceutical Education".

DRAFTERS:

Head of Healthcare Management and Economics Department
Candidate of Medical Sciences, Associate Professor S.V. Lezhenina

Associate Professor of Healthcare Management and Economics Department,
Candidate of Philological Sciences, G.F. Gubanova

DISCUSSED:

at the meeting of the Department of Healthcare Management and Information Technologies in Medicine on March 23, 2022, protocol № 8

Head of the department S.V. Lezhenina

AGREED BY:

Methodological Commission of the Medical Faculty on March 28, 2022, record № 4

Dean of the Faculty V.N. Diomidova

Acting Chief of the educational and methodological department, E.A. Shirmanova

1. Purpose and objectives of training when passing the practical training

The purpose of the practical training is mastering the basic techniques of conducting research work, deepening and consolidating knowledge, skills and abilities acquired in the process of theoretical training.

Objectives:

- mastering the skills of research work;
- expansion of professional horizons;
- promoting comprehensive development of the student's personality, forming the skills of working in creative teams and scientific and organizational activities;
- development of students' abilities for independent reasoned judgments and conclusions;
- obtaining practical skills in preparing and evaluating scientific literature;
- education of performing discipline and the ability to solve problems independently;
- development of skills for independent analysis of work results;
- identification, generalization, dissemination and use of positive domestic and foreign experience, new organizational and methodological forms of students' research;
- forming the ability in future specialists to use scientific knowledge, readiness for advanced training and professional development, continuous self-education and self-improvement.

2. Mode and type of practical training, method and forms of its implementation

Type of practical training - on-the-job training (research work)"

Type of practical training - research work.

The practice is conducted in the form of practical training in accordance with the academic schedule and curriculum.

The method of conducting is stationary.

The form of carrying out the practical training is discrete by type of practice - by allocating a continuous period of training time in the calendar training schedule for each type (set of types) of practical training.

Practical training for students with disabilities and physical conditions is carried out taking into account the peculiarities of their psychophysical development, individual capabilities and health status.

3. Planned learning outcomes during passing the practical training, correlated with the results of uptaking the educational program.

Competence code	Competence achievement indicator	Planned learning outcomes
GPC-13 - He/she is able to solve standard tasks of professional activity using information, bibliographic resources, medical and biological terminology, information and communication technologies taking into account the basic requirements	GPC-13.1. He/she is able to use modern information and communication tools and technologies in professional activities	Know: basic terms and concepts in the field of information technologies; medical information systems; Be able to: work confidently on a personal computer as a user; Use information technology for statistical analysis of data related to public health problems Master: the skills of searching, collecting, systematizing and using information, practical using organizational and computer equipment in the field of professional activity

of information security	GPC-13.2 - He/she is able to comply with the rules of information security in professional activities	<p>Know: the opportunities of the Internet for searching and processing data and organizing information exchange</p> <p>Be able to: respect confidentiality when working with information databases, with individual data of citizens; medical reports;</p> <p>Use the principles of information security in his/her work;</p> <p>Master: basic methods of solving problems of information security in computer systems and information protection</p>
	GPC-13.3 - He/she is able to solve standard tasks of professional activity using information, bibliographic resources and information and communication technologies	<p>Know: the basics of modern computers organization, trends in the development of computer devices and computer networks, the principles for organizing the use of computer hardware;</p> <p>Be able to: apply information and communication technologies in solving standard tasks of professional activity; be able to find POLIS, research data;</p> <p>Master: skills of using technical means in research activities</p>
PC-5 - He/she is capable of implementing organizational and managerial activities	PC-5.1 - He/she is able to use regulatory documentation adopted in healthcare	<p>Know: regulatory documentation adopted in healthcare</p> <p>Be able to: use regulatory and legal documentation in their professional activities;</p> <p>Master: skills of calculating and analysing the results of the activities performed by medical institutions, the quality of medical care;</p>
	PC-6.2 - He/she is able to provide and control good working practice of secondary and junior medical personnel in medical organizations	<p>Know: functional duties, rights and responsibilities of junior medical personnel;</p> <p>Be able to: interact with colleagues and employees of other services in the interests of the patient;</p> <p>ensure the rational organization of the work of secondary and junior medical personnel</p> <p>Master: master communication skills; skills in organizing the work of secondary and junior medical personnel of medical organizations</p>
	PC-5.3 - He/she is able to analyze medical and statistical indicators of morbidity, disability and mortality to assess the health of the	<p>Know: methods of collecting and medical statistical analysis of information on health indicators of the population;</p> <p>Be able to: Calculate and evaluate the main indicators of public health: medical</p>

	population	and demographic, indicators of morbidity, disability; analyze scientific and journalistic literature of professional purpose; Master: methods of collecting and statistical analysis of information for calculating and evaluating the main indicators of public health; the skills of collecting and processing data necessary for carrying out research; methods and techniques of abstract thinking, problem analysis, synthesis of subject material;
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4. The place of the practical training in the structure of the educational program for higher education.

The on-the-job training (research work) is included in Block 2. "Practical Training," "Mandatory Part" and is based on the disciplines of the educational program of higher education in the field of training 31.05.03 Dentistry, namely: "Medical Informatics" (GPC-13.1, GPC-13.2, GPC-13.3) "Health Economics" (PC-5.1, PC-5.2, PC-5.3), "Public Health and Healthcare" (PC-5.1, PC-5.2, PC-5.3), and at all previous practices: "On-the-job training for obtaining professional skills and experience of professional activity (in therapeutic dentistry)" (PC-5.1, PC-5.2, PC-5.3), "On-the-job training for obtaining professional skills and experience of professional activity (in orthopedic dentistry)" (PC-5.1, PC-5.2, PC-5.3), "On-the-job training for obtaining professional skills and professional experience (in pediatric dentistry)" (PC-5.1, PC-5.2, PC-5.3).

To pass successfully the practical training, the student must

Know:

1. Primary accounting and statistical documents.
2. The main indicators used to evaluate the activities of medical organizations.
3. The management system of a medical organization and its subdivisions.
4. Principles of organization, economics, planning and financing of healthcare.

the opportunities of the Internet for searching and processing data and organizing information exchange

Be able to:

1. Calculate and analyze indicators of public health of the population;
2. Maintain approved medical records.
3. Use electronic information and library systems and medical databases to search and analyze professional information.

4. Apply the most important methods and techniques of economic analysis, allowing in the future profession to make effective management decisions in the field of economics of a medical organization

Master:

1. The methodology for calculating and evaluating the main indicators of economic activity of medical organizations.
2. The methodology for comprehensive assessment of the activities performed by a medical organization.
3. The technology of choosing the optimal ways to increase the economic efficiency of a medical organization as an economic entity.
4. The skills of searching, collecting, systematizing and using information, practical using organizational and computer equipment in the field of professional activity

5. The skills of independent creative work, the ability to organize their work.
6. The skills of using technical means in research activities

5. Place and time frame of practical training

The on-the-job training (research work) is carried out in the 10th semester. The total duration of the practical training is 2 weeks.

The form of practical training attestation is a credit test with a mark (graded credit). According to the results of the credit test, the student can be rated as "excellent", "good", "satisfactory" and "failing".

The practical training is conducted on the basis of the Department of Healthcare Management and Economics.

6. Structure and content of practical training.

In conformity with the curriculum to master the practical training program, the curriculum provides for 3 credits / 108 academic hours, including the scope of contact work is 2 hours. Of these, 106 hours of independent work.

Seq. N	Sections (stages) of practical training	Types of work in practice, including independent work of students	Labor intensity (hours)	Including contact work not less than, hours.	Formed competences
1.	Organizational and preparatory stage	Conducting an organizational meeting of students. 1. Definition and choosing the topic. Features of research in medicine. 2. The research plan and the stages of drawing up a plan. 3. The research program, types of program. 4. Definition of the purpose and objectives of the study. 5. Drawing up a monitoring plan and observation program. 6. Rules for compiling a literature review on the research topic. Briefing on familiarization with labour protection requirements, safety rules, fire safety, as well as the internal labor regulations. Preparation of an order for practice. Getting a work schedule (plan) of practice, an individual assignment.	4	1	GPC-13.1; GPC-13.2; GPC-13.3 PC-5.1, PC-5.2, PC-5.3,
2.	The main stage	Theoretical work Familiarization with the scientific literature on the stated research topic in order to make a reasonable choice of the theoretical basis of upcoming work,	18		GPC-13.1; GPC-13.2; GPC-13.3 PC-5.1, PC-5.2,

content of the information provided in the report on implementing an individual assignment by each student is clarified with the practice supervisors. With the consent of the relevant organization, the following information should be provided in the report:

- analysis of literary sources on the topic proposed by the department in accordance with the research plan and program,
- in-depth study of the issues raised, conducting research using statistical materials on the Chuvash Republic and the Russian Federation and analyzing the data obtained.

The work ends with conclusions in accordance with the purpose and objectives of the study, as well as the list of used literature and Internet resources on the date of application.

Evaluation criteria:

- the "excellent" rating is given to the student if the student has found a comprehensive systematic knowledge of theoretical material and practical material within the framework of his practice assignment; has fully submitted a report on the practice, designed in accordance with the requirements; the results are made public, the defense of his/her own position is active;

- the rating "good" is given if the student firmly knows the theoretical material within the framework of the practical assignment, competently and substantially presents it, does not allow significant inaccuracies in its presentation; has fully submitted a report on the practice, designed in accordance with the requirements; the results are made public, the defense of his/her own position is active;

- the "satisfactory" rating is given to the trainee, if the student has knowledge only of theoretical material in the framework of the assignment to practice, but has not learned its details, perhaps admits imprecise, insufficiently correct wording in his/her written statement or makes significant errors in the presenting the theoretical material; in full, but with inaccuracies, presented the report on practical training issued in accordance with the requirements; during the defense, facts from the work are stated without argumentation;

- the "unsatisfactory" rating is given to the student if the scientific research does not reflect current state of legislation, there is no scientific commentary, it does not contain independent conclusions, the design is careless. During the defense, the student is not able to explain the essence of the problem considered in the research.

8.2. Practice assignments.

8.2.1. Individual practice assignments (controlled competencies - GPC-13.1, GPC-13.2, GPC-13.3, PC-5.1, PC-5.2, PC-5.3):

The research work includes compiling a literature review, determining the purpose and objectives of the study, collecting factual material, its statistical processing and analysis; conducting discussions, making conclusions and suggestions.

During the period of on-the-job practical training, the student performs a research work, the topic of which he/she chooses independently and discusses it with the basic supervisor and curator of the practice. Later, they provide methodological assistance in the work.

Research assignments

1. Substantiate the relevance of the research topic
2. Establish the degree of scientific elaboration of the problem
3. Determine the purpose and objectives of the study
4. Analyze the theoretical basis of the study
5. Familiarize with the results of the research work, to conduct a preliminary analysis
6. Formalize the results of the study

Criteria for evaluating practice assignments.

1. Substantiate the relevance of the research topic: The relevance of the research topic is justified if the student determines its significance for the relevant healthcare branch. The fact that the

problem is currently unsolved is illustrated by statistical data or examples (example) from practice.

2. Establish the degree of scientific elaboration of the problem: the authors and their scientific works in the field of the problem under consideration are given, conclusions are drawn about completeness of their research, the need to continue scientific research of this problem is noted.
3. Identify the purpose and objectives of the study: the purpose of the study is determined (some problem in healthcare is analyzed) as well as the tasks (stages) of achieving the goal.
4. Analyze the theoretical basis of the study: a review of the literature of domestic and, if possible, foreign one on the given topic was conducted.
5. Familiarize with the results of the research work, to conduct a preliminary analysis: a statistical analysis was carried out on a given topic, reporting figures for the Chuvash Republic, the Russian Federation were used. The presentation of the material is logically consistent. The work contains conclusions. The style of presentation is scientific.
6. Formalize the results of the study: the results of the study and the scope of work meet the requirements. The results of scientific research are published in a scientific periodical, a collection of scientific articles or reported at a scientific or scientific-practical conference.

8.2.2. Model assignments for the practical training.

1. Keeping and execution of the practice diary.
2. Passing instruction on introduction to the requirements of labor protection, occupational safety, fire safety, as well as the internal labor regulations of the organization that provides a place for practical training.
3. Completing tasks.

Sample topics of research papers

(controlled competencies - GPC-13.1, GPC-13.2, GPC-13.3, PC-5.1, PC-5.2, PC-5.3).

1. Occupational hazards in the work of a dentist in medical organizations in Cheboksary. Psychophysiological factor.
2. The role of modern technologies in the prevention and treatment of periodontal diseases in the town of Cheboksary.
3. Ethical aspects of the interaction between domestic healthcare with the pharmaceutical business at present stage. Assessment of the situation in the Chuvash Republic.
4. Labor protection in the healthcare system in the town of Cheboksary.
5. Statistics as a research method in medicine (studying the statistics of cardiovascular diseases (digestive organs, respiratory organs, etc.) in schoolchildren.... aged of the North-Western (Novoyuzhny, etc.) district of Cheboksary for 1 year (5.10...50 years)).
6. Statistics as a method of research in medicine (studying the statistics of cardiovascular diseases (digestive organs, respiratory organs, etc.) in students of the Northwestern (Novoyuzhny, etc.) district of Cheboksary for 1 year (5.10...50 years)).
7. Features of personnel management in healthcare institutions of the town of Cheboksary.
8. Personnel policy in the healthcare system of the Chuvash Republic.
9. Regulatory environment of providing paid medical services in state and municipal healthcare institutions of the Chuvash republic.
10. Organization of electronic document management in the healthcare system (on the example ...).
11. Costs rationing in a municipal health institution.
12. Features of offer and demand for medical services.
13. Analysis of the primary incidence of diabetes mellitus in pediatric population of the town of Cheboksary.
14. Analysis of deaths from alcoholism of the able-bodied population of Cheboksary for 1 year (3,5,10... years).
15. Analysis of demographic situation in the Chuvash Republic over the past 5, 10... years.

16. The study of caries incidence among the children of the Chuvash Republic in the dynamics of ... years.

17. Study of the structure of mortality of the able-bodied population in the Chuvash Republic in dynamics over ... years.

The content of the topics is aimed at analyzing current problems of modern healthcare.

Implementation of one research topic can be carried out both individually and in a group format (as a rule).

The research topic is selected individually together with the supervisor immediately before the start of on-the-job practical training "Research work".

Criteria for evaluating the research work:

- the "excellent" rating is given to the student if the student has found a comprehensive systematic knowledge of theoretical material and practical material within the framework of his practice assignment; has fully submitted a report on the research work, executed in accordance with the requirements; the results are made public, the defense of his/her own position is active;

- the rating "good" is given if the student firmly knows the theoretical material within the framework of the practical assignment, competently and substantially presents it, does not allow significant inaccuracies in its presentation; has fully submitted a report on the practice, executed in accordance with the requirements; the results are made public, the defense of his/her own position is not active;

- the "satisfactory" rating is given to the trainee, if the student has knowledge only of theoretical material in the framework of the assignment to practice, but has not learned its details, perhaps admits imprecise, insufficiently correct wording in his/her written statement or makes significant errors in the presenting the theoretical material; in full, but with inaccuracies, presented the report on practical training executed in accordance with the requirements; during the defense, facts from the work are stated without argumentation;

- the "unsatisfactory" rating is given to the student if the scientific research does not reflect current state of legislation, there is no scientific commentary, it does not contain independent conclusions, the design is careless. During the defense, the student is not able to explain the essence of the problem considered in the research.

8.2.3. Requirements for the report execution

(controlled competencies - GPC-13.1, GPC-13.2, GPC-13.3, PC-5.1, PC-5.2, PC-5.3).

Making up the report is carried out in accordance with the local documents of the university.

8.2.1. Individual practice assignments (controlled GPC-10.1; GPC-10.2; GPC-10.3; GPC-11.1; GPC-11.2; GPC-11.3; PC-1.1; PC-1.2; PC-1.3; PC-2.1; PC-2.2; PC-2.3; PC-6.1; PC-6.2; PC-6.3):

The research work includes compiling a literature review, determining the purpose and objectives of the study, collecting factual material, its statistical processing and analysis; conducting discussions, making conclusions and suggestions.

During the period of on-the-job practical training, the student performs a research work, the topic of which he/she chooses independently and discusses it with the basic supervisor and curator of the practice. Later, they provide methodological assistance in the work.

Research assignments

7. Substantiate the relevance of the research topic
8. Establish the degree of scientific elaboration of the problem
9. Determine the purpose and objectives of the study
10. Analyze the theoretical basis of the study
11. Familiarize with the results of the research work, to conduct a preliminary analysis
12. Formalize the results of the study

8.3. Sample questions to protect the practice report

1. What is the relevance of the chosen research topic?
2. What is the significance of this problem for practical healthcare?
3. How can this problem be disclosed in educational work with different segments of the population, including risk groups?
4. What is the hypothesis of your research?
5. What methods and techniques can be used to investigate the problem?
6. What are the main conclusions made in the course of the study?
7. What is the theoretical and practical significance of the problem?
8. What were the main results obtained during the study?
9. Which of them have elements of scientific novelty?

Forms of intermediate attestation (based on the results of on-the-job practice).

Forms and types of control of students' knowledge provided for in this discipline:

- ongoing monitoring (regularity of attending practice – conducting research work);
- interim assessment (credit test).

The working documents for drawing up the report are also working materials and documents of the profile organization that are allowed for study and use by the student passing the practical training. The scope and content of the information provided in the report on implementing an individual assignment by each student is clarified with the practice supervisors.

Evaluation criteria:

- the "excellent" rating is given to the student if the student has found a comprehensive systematic knowledge of theoretical material and practical material within the framework of his practice assignment; has fully submitted a report on the practice, executed in accordance with the requirements; has positive feedback from the profile organization;
- the rating "good" is given if the student firmly knows the theoretical material within the framework of the practical assignment, competently and substantially presents it, does not allow significant inaccuracies in its presentation; has fully submitted a report on the practice, executed in accordance with the requirements; has positive feedback from the profile organization;
- the "satisfactory" rating is given to the trainee, if the student has knowledge only of theoretical material in the framework of the assignment to practice, but has not learned its details, perhaps admits imprecise, insufficiently correct wording in his/her written statement or makes significant errors in the presenting the theoretical material; in full, but with inaccuracies, presented the report on practical training executed in accordance with the requirements; has satisfactory reviews from the profile organization;
- the "failing" rating is given to the student if the student missed classes during the on-the-job training without valid reasons; made fundamental mistakes in performing assignments on practice, or did not complete the assignment; submitted an incomplete, inaccurate report on practice, research work, executed without compliance with the requirements; has unsatisfactory reviews of the profile organization.

Criteria for assessing the formation of competence

Planned learning outcomes	Assessment of competence formation at the initial stage			
	Unsatisfactory (2 points)	Satisfactory (3 points)	Good (4 points)	Excellent (5 points)
Know: basic terms and concepts in the field of information technologies; medical information systems;	The student has only partially mastered the minimum level of knowledge.	The student has general knowledge of the minimal level, but does	The student demonstrates the minimal level of knowledge,	The student demonstrates the maximum level of knowledge. When checking

<p>Be able to: work confidently on a personal computer as a user; Use information technology for statistical analysis of data related to public health problems</p> <p>Master: the skills of searching, collecting, systematizing and using information, practical using organizational and computer equipment in the field of professional activity</p>	Skills and abilities are underdeveloped	not know how to logically substantiate his thoughts. The skills and abilities are poorly developed	but there are significant shortcomings in the answer, the material has been partially mastered. When checking skills and abilities, mistakes are made in reasonings.	skills and abilities, the student shows a good understanding of the material covered, but cannot theoretically substantiate some conclusions
Planned learning outcomes	Assessment of competence formation at the intermediate stage			
	Unsatisfactory (2 points)	Satisfactory (3 points)	Good (4 points)	Excellent (5 points)
<p>Know: the opportunities of the Internet for searching and processing data and organizing information exchange</p> <p>Be able to: respect confidentiality when working with information databases, with individual data of citizens; medical reports; Use the principles of information security in his/her work;</p> <p>Master: basic methods of solving problems of information security in computer systems and information protection</p>	The student has general knowledge of the basic level, but does not know how to logically substantiate his thoughts. Basic skills and abilities are poorly developed	The student demonstrates a basic level of knowledge, but there are significant shortcomings in the answer, the material has been partially mastered. When checking basic skills and abilities, mistakes are made in reasoning.	The student demonstrates the basic level of knowledge. When checking skills and abilities, the student shows a good understanding of the material covered, but cannot theoretically substantiate some conclusions	The student has fully mastered the basic level of knowledge, skills and abilities, understands the material covered, responds clearly and comprehensively, is able to evaluate facts, reasons independently
Planned learning outcomes	Assessment of competence formation at the final stage			
	Unsatisfactory (2 points)	Satisfactory (3 points)	Good (4 points)	Excellent (5 points)
<p>Know: the basics of modern computers organization, trends in the development of computer devices and computer networks, the principles for organizing the use of computer hardware;</p>	The student does not demonstrate an advanced level of knowledge.	The student demonstrates an advanced level of knowledge, but there are significant shortcomings in the answer,	The student demonstrates an advanced level of knowledge. When checking skills and abilities, the	The student has fully mastered the advanced level of knowledge, skills and abilities, understands the material covered, responds clearly

Be able to: apply information and communication technologies in solving standard tasks of professional activity; be able to find POLIS, research data; Master: skills of using technical means in research activities		the material has been partially mastered. When checking basic skills and abilities, mistakes are made in reasoning.	student shows a good understanding of the material covered, but cannot theoretically substantiate some conclusions	and comprehensively, is able to evaluate facts, reasons independently, is distinguished by the ability to substantiate conclusions and explain them in a logical sequence.
Planned learning outcomes	Assessment of competence formation at the initial stage			
	Unsatisfactory (2 points)	Satisfactory (3 points)	Good (4 points)	Excellent (5 points)
Know: regulatory documentation adopted in healthcare Be able to: use regulatory and legal documentation in their professional activities; Master: skills of calculating and analysing the results of the activities performed by medical institutions, the quality of medical care;	The student has only partially mastered the minimum level of knowledge. Skills and abilities are underdeveloped	The student has general knowledge of the minimal level, but does not know how to logically substantiate his thoughts. The skills and abilities are poorly developed	The student demonstrates the minimal level of knowledge, but there are significant shortcomings in the answer, the material has been partially mastered. When checking skills and abilities, mistakes are made in reasonings.	The student demonstrates the maximum level of knowledge. When checking skills and abilities, the student shows a good understanding of the material covered, but cannot theoretically substantiate some conclusions
Planned learning outcomes	Assessment of competence formation at the intermediate stage			
	Unsatisfactory (2 points)	Satisfactory (3 points)	Good (4 points)	Excellent (5 points)
Know: functional duties, rights and responsibilities of junior medical personnel; Be able to: interact with colleagues and employees of other services in the interests of the patient; ensure the rational organization of the work of secondary and junior medical personnel Master: master	The student has general knowledge of the basic level, but does not know how to logically substantiate his thoughts. Basic skills and abilities are poorly developed	The student demonstrates a basic level of knowledge, but there are significant shortcomings in the answer, the material has been partially mastered. When checking basic	The student demonstrates the basic level of knowledge. When checking skills and abilities, the student shows a good understanding of the material	The student has fully mastered the basic level of knowledge, skills and abilities, understands the material covered, responds clearly and comprehensively, is able to evaluate facts, reasons independently

communication skills; skills in organizing the work of secondary and junior medical personnel of medical organizations		skills and abilities, mistakes are made in reasoning.	covered, but cannot theoretically substantiate some conclusions	
Planned learning outcomes	Assessment of competence formation at the final stage			
	Unsatisfactory (2 points)	Satisfactory (3 points)	Good (4 points)	Excellent (5 points)
Know: methods of collecting and medical statistical analysis of information on health indicators of the population; Be able to: Calculate and evaluate the main indicators of public health: medical and demographic, indicators of morbidity, disability; analyze scientific and journalistic literature of professional purpose; Master: methods of collecting and statistical analysis of information for calculating and evaluating the main indicators of public health; the skills of collecting and processing data necessary for carrying out research; methods and techniques of abstract thinking, problem analysis, synthesis of subject material;	The student does not demonstrate an advanced level of knowledge.	The student demonstrates an advanced level of knowledge, but there are significant shortcomings in the answer, the material has been partially mastered. When checking basic skills and abilities, mistakes are made in reasoning.	The student demonstrates an advanced level of knowledge. When checking skills and abilities, the student shows a good understanding of the material covered, but cannot theoretically substantiate some conclusions	The student has fully mastered the advanced level of knowledge, skills and abilities, understands the material covered, responds clearly and comprehensively, is able to evaluate facts, reasons independently, is distinguished by the ability to substantiate conclusions and explain them in a logical sequence.

9. List of educational literature and Internet resources required for practical training

The electronic catalog and electronic information resources provided by the scientific library of the FSBEI of HE "I. N. Ulianov Chuvash State University" are available at the link <http://library.chuvsu.ru/>

№	List of main literature
1	Medic, V. A. Public Health and Healthcare: textbook / V. A. Medic, V. I. Lisitsin. - 4th ed. , reprint. and add. - Moscow : GEOTAR-Media Publ., 2020. - 496 p.: ill. - 496

	p. - ISBN 978-5-9704-5610-1. - Text: electronic // URL: http://www.studmedlib.ru/book/ISBN9785970456101.html (accessed: 25.01.2021).
2	Ekshikeev T. K. Economics and Innovation: a textbook / Ekshikeev T. K. - Moscow: GEOTAR-Media Publ., 2019. - 146 p. - Text: electronic // URL: http://www.studmedlib.ru/book/06-COS-2427.html (accessed: 18.01.2020).
List of additional literature	
1	Zarubina, T. V. Medical Informatics : textbook / Zarubina T. V. [et al.] - Moscow : GEOTAR-Media Publ., 2018. - 512 p. - ISBN 978-5-9704-4573-0. - Text : electronic // URL: http://www.studmedlib.ru/book/ISBN9785970445730.html . (accessed: 18.01.2020).
2	Medic, V. A. Public Health and Healthcare : a guide to practical : a textbook / Medik V. V. [et al.] - Moscow : GEOTAR-Media Publ., 2018. - 464 p. - ISBN 978-5-9704-4291-3. - Text : electronic // URL: http://www.studmedlib.ru/book/ISBN9785970442913.html (accessed: 18.01.2020).
3	Bykova M.B. - Execution and Drawing Up Final Qualification Papers, Research Papers, Master'S Course Papers and Practice Reports; 2018-05-05. - Moscow: MISIS Publishing House, 2017. - 76 p. - URL: http://www.iprbookshop.ru/72577.html (accessed: 18.01.2020).
4	Khrustalev, Yu. M. Bioethics. Philosophy of Life Preservation and Health Saving : textbook / Yu . V. [et al.] - Moscow : GEOTAR-Media Publ., 2017. - 400 p. - ISBN 978-5-9704-4093-3. - Text : electronic // URL: http://www.studmedlib.ru/book/ISBN9785970440933.html (accessed: 18.01.2020).
List of recommended Internet resources	
1.	The scientific library of the FSBEI of HE "I. N. Ulianov Chuvash State University" [Electronic resource]. – Mode of access: http://library.chuvsu.ru
2.	Electronic library system IPRbooks [Electronic resource]. – Mode of access: http://www.iprbookshop.ru
3.	Electronic library system "Yurayt": electronic library for universities and colleges [Electronic resource]. – Mode of access: https://www.biblio-online.ru
4.	ELS "Publishing House" Lan " [Electronic resource]. – Mode of access: https://e.lanbook.com/
5.	Consultant of a trainee. Electronic library of a medical university [Electronic resource]. – Mode of access: http://www.studmedlib.ru/
6.	Single window to educational resources [Electronic resource]. – Mode of access: http://window.edu.ru
7.	Russian State Library [Electronic resource]. – Mode of access: http://www.rsl.ru
8.	Russian National Library [Electronic resource]. – Mode of access: http://www.nlr.ru
9.	Scientific electronic library "Cyberleninka" [Electronic resource]. – Mode of access: http://cyberleninka.ru

10. List of information technologies used in carrying out the practical training, including the list of software and information reference systems (if necessary)

Available licensed and freely distributed software, professional databases, information and reference systems provided to the student-trainee by the university (URL: <http://ui.chuvsu.ru/index.php/2010-06-25-10-45-35>).

In the course of practical training, students can use information technologies, including computer simulations, automation tools for design and software development used in the profile organization, Internet technologies, etc.

№	Name of the recommended software and ISS
---	--

1.	Microsoft Office Suite
2.	Windows OS
3.	Legal reference system "Consultant Plus»
4.	Legal search system "Garant",

11. Description of the material and technical base necessary for conducting training practice

In accordance with the contracts for practical training between the university and the profile organization, students can use the resources of the health care units, the library, medical and other documentation of the profile organization and the university, which are necessary for successful mastering the practical training program by students and their individual assignments for practice. The university's classrooms for independent studies are equipped with user-defined automated workstations for the number of students connected by a local network ("computer" class), with the opportunity to connect to the Internet and access the electronic information and educational environment of the FSBEI of HE "I. N. Ulianov Chuvash State Univeristy".

12. Organization of educational practice for the disabled and persons with disabilities (if available)

Organization of practical training for the disabled and persons with physical conditions is carried out taking into account the students' state of health and the requirements of their accessibility for students and the recommendations of medical and social expertise, as well as an individual rehabilitation and habilitation program for a disabled person from a Federal State institution of medical and social expertise, regarding the recommended conditions and types of work.

In order to organize passing the practical training for students with disabilities and persons with physical conditions, the university coordinates with the relevant organization (enterprise) the conditions and types of work, taking into account the types of activities, in accordance with the federal state educational standard of higher education and the basic educational program of higher education in this field of training / specialty, taking into account the recommendations of medical and social expertise and/or an individual rehabilitation and habilitation program for a disabled person. If necessary, special workplaces can be equipped for practical training in accordance with the nature of disorders, as well as taking into account the professional type of activity and the nature of work performed by a disabled student and persons with physical conditions in accordance with the requirements of professional standards in the relevant field of training/ specialty.

The forms of practical training for students with disabilities and persons with physical conditions can be established taking into account their individual capabilities and health status. Taking into account the individual characteristics of students with disabilities and persons with physical conditions can be reflected in the individual assignment for practice, specific types of work reflected in the individual assignment for practice, the work schedule (plan) of the student's practical training. Material, technical and methodological conditions should be created for the organization and conducting the experiments (research), taking into account their individual capabilities and health status. The forms of independent work are also established taking into account their individual psychophysical characteristics, capabilities and health status (orally, in writing on paper or on a computer, etc.).

If necessary, students with disabilities and persons with physical conditions are provided with additional consultations and additional time to complete assignments during the on-the-job practical training.

During the practical training, students with disabilities and persons with physical conditions, if necessary, are provided with the assistance of a tutor or assistant (at the request of

the student and in accordance with the recommendations of the individual rehabilitation and habilitation program of the disabled person).

The procedure for presenting the report on the practical training by students with disabilities and persons with physical conditions should ensure providing necessary technical means and, if necessary, providing technical assistance. The form of carrying out the procedure for defending the report and obtaining a test by students with disabilities and persons with physical conditions is established taking into account their individual psychophysical characteristics and health capabilities (orally, in writing on paper, in writing on a computer, etc.). If necessary, students with disabilities and persons with physical conditions are provided with additional time to speak.

MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA
Federal State Budgetary Educational Institution
of Higher Education
"I.N. Ulianov Chuvash State University"

Medical Faculty

Healthcare management and Economics Department

WORKING SCHEDULE (PLAN) OF CONDUCTING THE PRACTICAL TRAINING

Student _____ group _____
 (Full name)

Practice _____ base _____

Head of Practice _____
 (academic degree, academic title, full name)

Practice period: from "_____" _____ 20__ to "_____" _____ 20__ .

Seq. N	Name of discipline	The section's (stage) content	Time frame of passing the stage (period) of practical training	Reporting form
1.	Section 1. Organizational and preparatory	Conducting an organizational meeting of students. Definition and assignment of research topics to students. Preparation of the order for carrying out the practical training. Performing an individual assignment: The safety briefing.		In written form.
2.	Section 2. Main	The theoretical part. Research work. Analysis of scientific research results. Formulation of conclusions.		In written form.
3.	Section 3. Final	Execution of the practice report. Defence of the practice report.		In written form. Oral form

Issued _____ / _____

Signature /Full name of the head

Agreed by:

Head of the
 Department _____

Received _____

Signature /Full name of the trainee

MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA
Federal State Budgetary Educational Institution
of Higher Education
"I.N. Ulianov Chuvash State University"

Medical Faculty

Healthcare management and Economics Department

INDIVIDUAL ASSIGNMENT
for research work

Student _____ group _____
 (Full name)

Head _____ of _____ the _____ practical _____ training

 (academic degree, academic title, full name)

Practice period: from "_____" _____ 20____ to "_____" _____ 20____ .

№ par agr aph	Practice assignments	Note
1.	Choosing a topic	
2.	Drawing up a research plan	
3.	Selection of empirical material and regulatory framework of the study	
4.	Research part	
5.	Method of publishing the research results (report at a scientific conference / publication in a periodical / collection of scientific articles)	
6.	Preparing the report	
7.	Report presentation	

The assignment has been issued _____
 / _____

Agreed by:

Signature /Full name
 of the head

Head of the
 Department _____

The assignment was received _____

Signature /Full name of the trainee

MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA

Federal State Budgetary Educational Institution

Institution of Higher Education

"I. N. Ulianov Chuvash State University"

Medical Faculty

Healthcare management and Economics Department

REPORT

**ON-THE-JOB TRAINING
RESEARCH WORK**

on

the

topic

—

Completed by: student

group _____

specialty 31.05.03 Dentistry

Full name

Scientific supervisor:

Cheboksary, 20_____

MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA

Federal State Budgetary Educational Institution
of Higher Education

«I.N. Ulianov Chuvash State University»
(FSBEI of HE «I.N. Ulianov Chuvash State University»)

Medical Faculty

Department _____

PRACTICE DIARY;

Speciality _____

Type of practice

_____ *name of the practical training according to the curriculum*

Student _____

Last name First Name Patronymic in full

Group _____ **Course** ____

**Place of passing the practical
training** _____

name of the organization –

practice base

Time frame of passing the practical training from _____ **20** ____ **to**
_____ **20** ____

**Head of practical training representing the
FSBEI of HE "I. N. Ulianov Chuvash State University»** _____

**Head of practical training representing the
organization** _____

**List of completed types of work
during the practice period**

№	Date	Name of the practice stage	Completion status
1		Briefing on labor protection, safety, fire safety, as well as internal labor regulations. Familiarization with the tasks and organization of on-the-job practical training (research work)	
2		Selection and justification of the research topic and problem. Formation of the study's purpose and objectives	
3		Theoretical analysis of the current state of this problem according to various information sources. Development of working methods	
4		Training in working with bibliographic databases (RSCI, Scopus, PubMed, Web of Science)	
5		Analysis of research results. Generalization, systematization, arrangement of materials on the research topic	
6		Conclusions by the content of the work. Preparing the report on research work.	
7		Defending the report on research work.	

MINISTRY OF EDUCATION AND SCIENCE OF RUSSIA
Federal State Budgetary Educational Institution
of Higher Education
«I.N. Ulianov Chuvash State University»
(FSBEI of HE «I.N. Ulianov Chuvash State University»)

STUDENT'S REPORT ON PRACTICAL TRAINING

for ____ term 20__-20__ academic year

Full name _____

Group _____. Course _____.

Speciality _____

Type/mode of practice: "On-the-job training (research work)"

1. Place and time frame of practical training

Practice base	Execution period
Healthcare Management and Economics Department	

2. Student's summary report on practical training (acquired knowledge, skills, practical skills)

During the practical training, the following tasks were solved in accordance with the purposes:

- 1) mastering the skills of research work;
- 2) expansion of professional horizons;
- 3) promoting comprehensive development of the student's personality, forming the skills of working in creative teams and scientific and organizational activities;
- 4) development of abilities for independent reasoned judgments and conclusions;
- 5) obtaining practical skills in preparing and evaluating scientific literature;
- 6) education of performing discipline and the ability to solve problems independently;
- 7) development of skills for independent analysis of work results;
- 8) identification, generalization, dissemination and use of positive domestic and foreign experience, new organizational and methodological forms of research;
- 9) forming the ability in future specialists to use scientific knowledge, readiness for advanced training and professional development, continuous self-education and self-improvement.

Student's signature _____

3. Characteristics given by the practice supervisor (acquired knowledge, skills, practical skills, organizational abilities – implementation of competencies, labor discipline)

Competences	Name of learning outcomes	Development indicators	
		mastered	did not master

GPC-13.1. He/she is able to use modern information and communication tools and technologies in professional activities	<p>Know: basic terms and concepts in the field of information technologies; medical information systems;</p> <p>Be able to: work confidently on a personal computer as a user;</p> <p>Use information technology for statistical analysis of data related to public health problems</p> <p>Master: the skills of searching, collecting, systematizing and using information, practical using organizational and computer equipment in the field of professional activity</p>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
GPC-13.2 - He/she is able to comply with the rules of information security in professional activities	<p>Know: the opportunities of the Internet for searching and processing data and organizing information exchange</p> <p>Be able to: respect confidentiality when working with information databases, with individual data of citizens; medical reports;</p> <p>Use the principles of information security in his/her work;</p> <p>Master: basic methods of solving problems of information security in computer systems and information protection</p>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
GPC-13.3 - He/she is able to solve standard tasks of professional activity using information, bibliographic resources and information and communication technologies	<p>Know: the basics of modern computers organization, trends in the development of computer devices and computer networks, the principles for organizing the use of computer hardware;</p> <p>Be able to: apply information and communication technologies in solving standard tasks of professional activity; be able to find POLIS, research data;</p> <p>Master: skills of using technical means in research activities</p>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
PC-5.1 - He/she is able to use regulatory documentation adopted in healthcare	<p>Know: regulatory documentation adopted in healthcare</p> <p>Be able to: use regulatory and legal documentation in their professional activities;</p> <p>Master: skills of calculating and analysing the results of the activities performed by medical institutions, the quality of medical care;</p>	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>

PC-6.2 - He/she is able to provide and control good working practice of secondary and junior medical personnel in medical organizations	Know: functional duties, rights and responsibilities of junior medical personnel; Be able to: interact with colleagues and employees of other services in the interests of the patient; ensure the rational organization of the work of secondary and junior medical personnel Master: master communication skills; skills in organizing the work of secondary and junior medical personnel of medical organizations	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>
PC-5.3 - He/she is able to analyze medical and statistical indicators of morbidity, disability and mortality to assess the health of the population	Know: methods of collecting and medical statistical analysis of information on health indicators of the population; Be able to: calculate and evaluate the main indicators of public health: medical and demographic, indicators of morbidity, disability; analyze scientific and journalistic literature of professional purpose; Master: methods of collecting and statistical analysis of information for calculating and evaluating the main indicators of public health; the skills of collecting and processing data necessary for carrying out research; methods and techniques of abstract thinking, problem analysis, synthesis of subject material;	<hr/> <hr/> <hr/>	<hr/> <hr/> <hr/>

Criteria for evaluating the practical training:

- the "excellent" rating is given to the student if the student has found a comprehensive systematic knowledge of theoretical material and practical material within the framework of his practice assignment; has fully submitted a practice report, executed in accordance with the requirements; has positive feedback from the relevant organization;

- the rating "good" is given if the student firmly knows the theoretical material within the framework of the practical assignment, competently and substantially presents it, does not allow significant inaccuracies in its presentation; has fully submitted a practice report, executed in accordance with the requirements; has positive feedback from the relevant organization;

- the "satisfactory" rating is given to the trainee, if the student has knowledge only of theoretical material in the framework of the assignment for practice, but has not learned its details, perhaps admits imprecise, insufficiently correct wording in his/her written statement or makes significant errors in the presenting the theoretical material; in full, but with inaccuracies, presented the practice report executed in accordance with the requirements; has satisfactory reviews from the relevant organization;

- the "failing" rating is given to the student if the student missed classes during the practical training without valid reasons; made fundamental mistakes in performing assignments for the practical training, or did not complete the assignment; submitted an incomplete, inaccurate report

on the practical training, issued without compliance with the requirements; has unsatisfactory reviews from the relevant organization.

Mark _____

Head of practical training

Feedback on the student's work at the end of the practical training period

[illegible]

" " 20 ()

Place for a stamp

Appendix 4 Application

To the Rector of FSBEI of HE
"Chuvash State University
named after I. N. Ulianov"

from a student of the _____ year of study
group _____
faculty _____
of budget (contract) form of training

(Full name)

application

I request you to consider as a **practice base** to pass the on-the-job (research) practical training in
the period from _____ 20... to _____ 20....
_____ (full name of the
organization).

_____ 20 ____ . № _____

student's signature

print full name

Head of the department of

signature

print full name

ACKNOWLEDGEMENT FORM
with the requirements of labor protection, safety, fire safety, with the rules of internal labor regulations

Trainee

_____ *family name*_____ *name*_____ *patronymic name*

speciality

_____ *code and name of speciality*

during the period of on-the-job (clinical) practical training
 to

_____ *name of the practical training according to the curriculum*

from

 _____ 20 ____ .
date month year

to

 _____ 20 ____ .
date month year

in

_____ *name of organization*

passed instruction on introductions to the requirements of:

- ✓ occupational safety and health at the workplace,
- ✓ safety rules,
- ✓ fire safety;

got to know the rules of internal labor regulations.;

Briefings and familiarization were conducted:

Head of practical training

representing a relevant organization _____ / _____

I have passed the briefings, I am familiar with the rules:

Trainee

_____ /

Date of passing _____ 20____